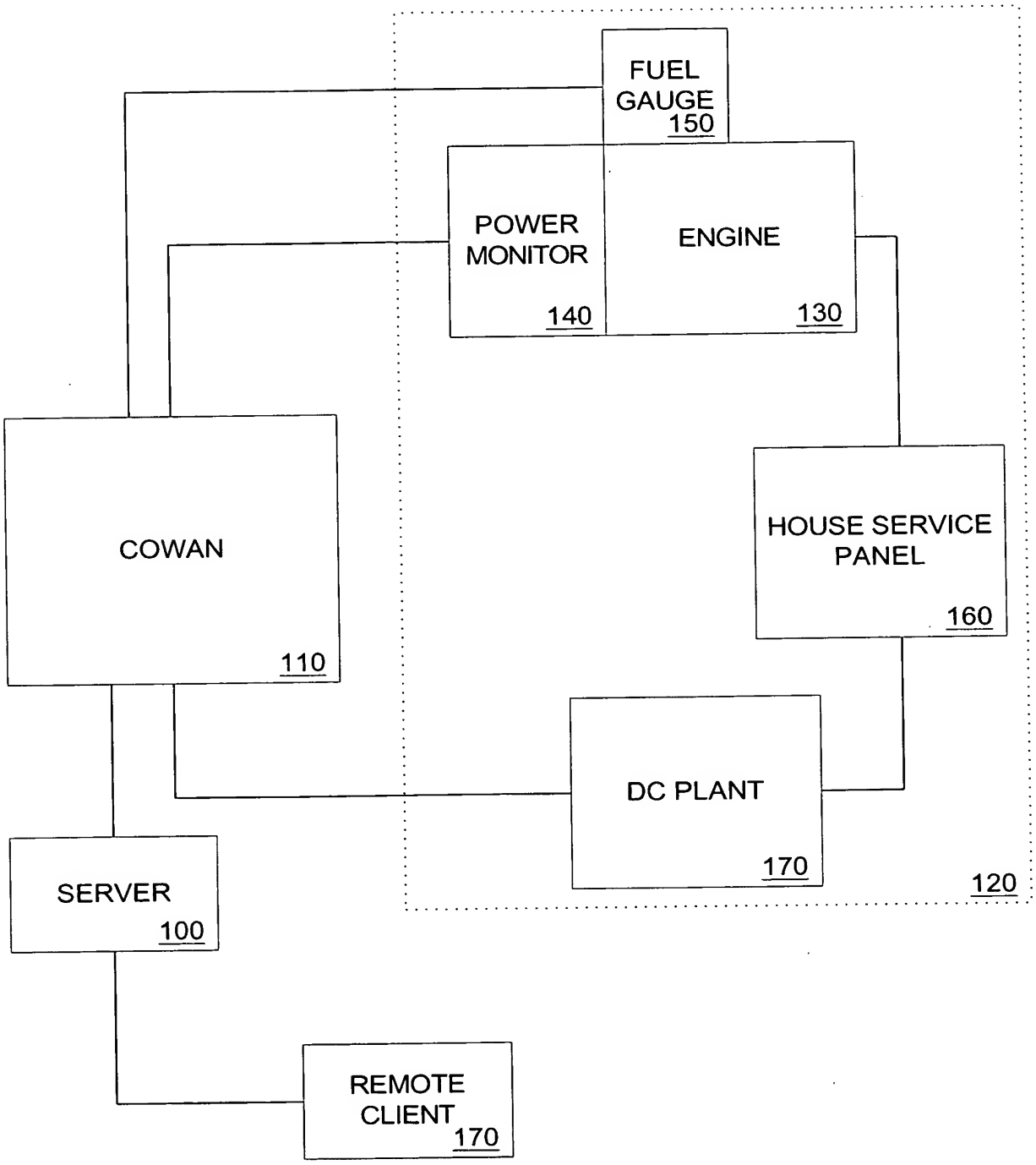
FUEL GAUGE 150
POWER MONITOR 140
ENGINE 130
COWAN 110
HOUSE SERVICE PANEL 160
DC PLANT 170
120
SERVER 100
REMOTE CLIENT 170

FIG. 1

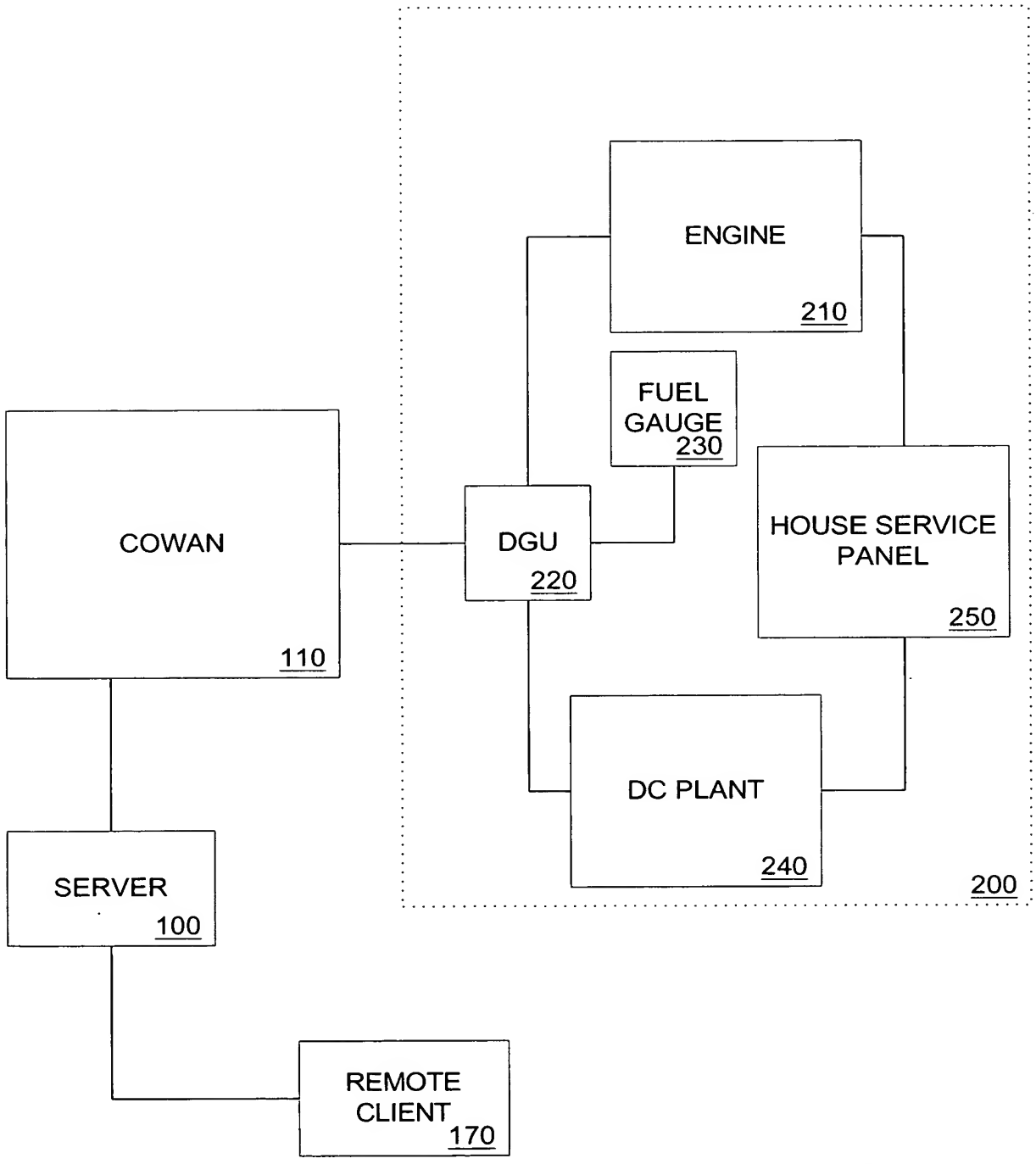
ENGINE
210
FUEL
GAUGE
230
COWAN
110
DGU
220
HOUSE SERVICE
PANEL
250
DC PLANT
240
200
SERVER
100
REMOTE
CLIENT
170

FIG. 2

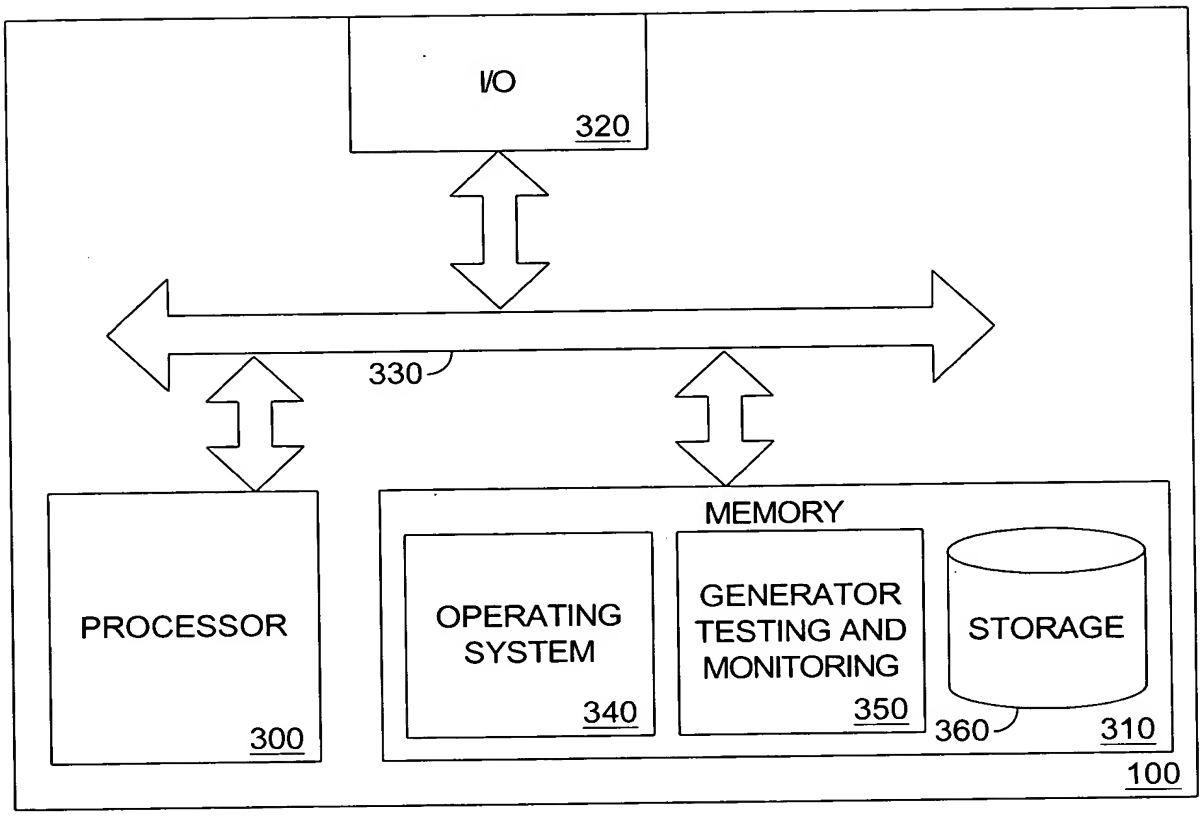
I/O
320
330
PROCESSOR
300
MEMORY
OPERATING SYSTEM
340
GENERATOR TESTING AND MONITORING
350
STORAGE
360
310
100

FIG. 3

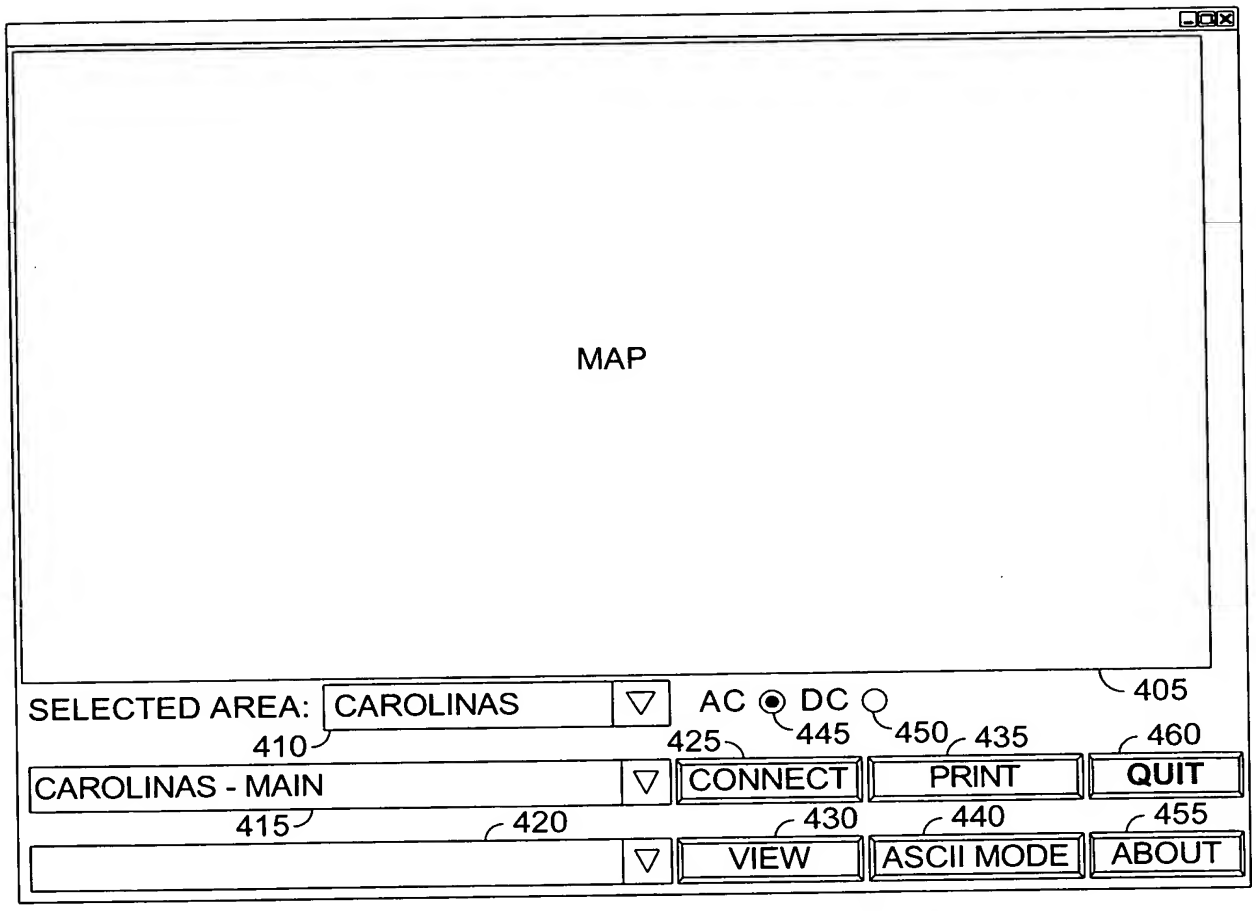
MAP
SELECTED AREA:
CAROLINAS
AC
DC
405
410
425
445
450
435
460
CAROLINAS - MAIN
CONNECT
PRINT
QUIT
415
420
430
440
455
VIEW
ASCII MODE
ABOUT
400

FIG. 4

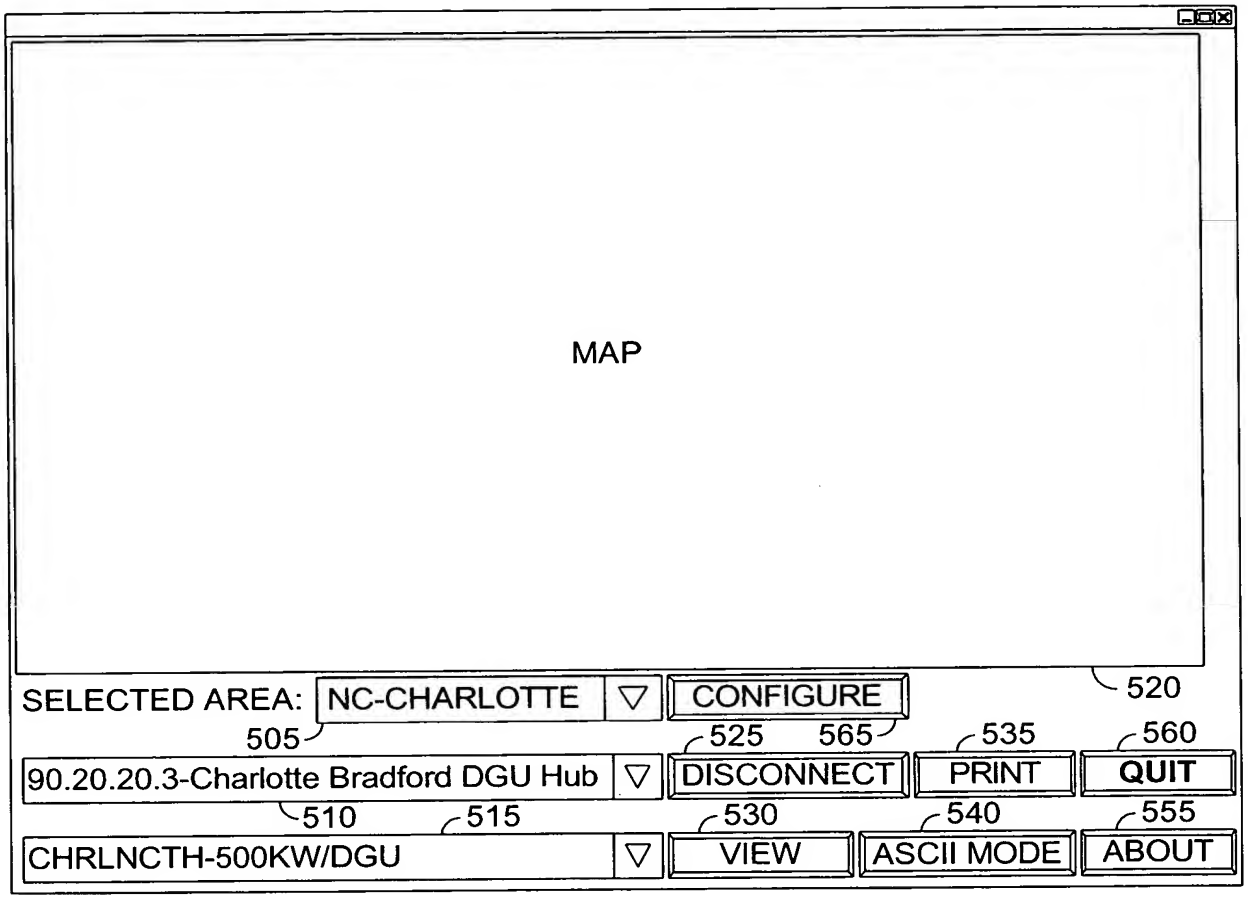
MAP
SELECTED AREA:
NC-CHARLOTTE
CONFIGURE
90.20.20.3-Charlotte Bradford DGU Hub
DISCONNECT
PRINT
QUIT
CHRLNCTH-500KW/DGU
VIEW
ASCII MODE
ABOUT
505
510
515
520
525
530
535
540
555
560
565
500

FIG. 5

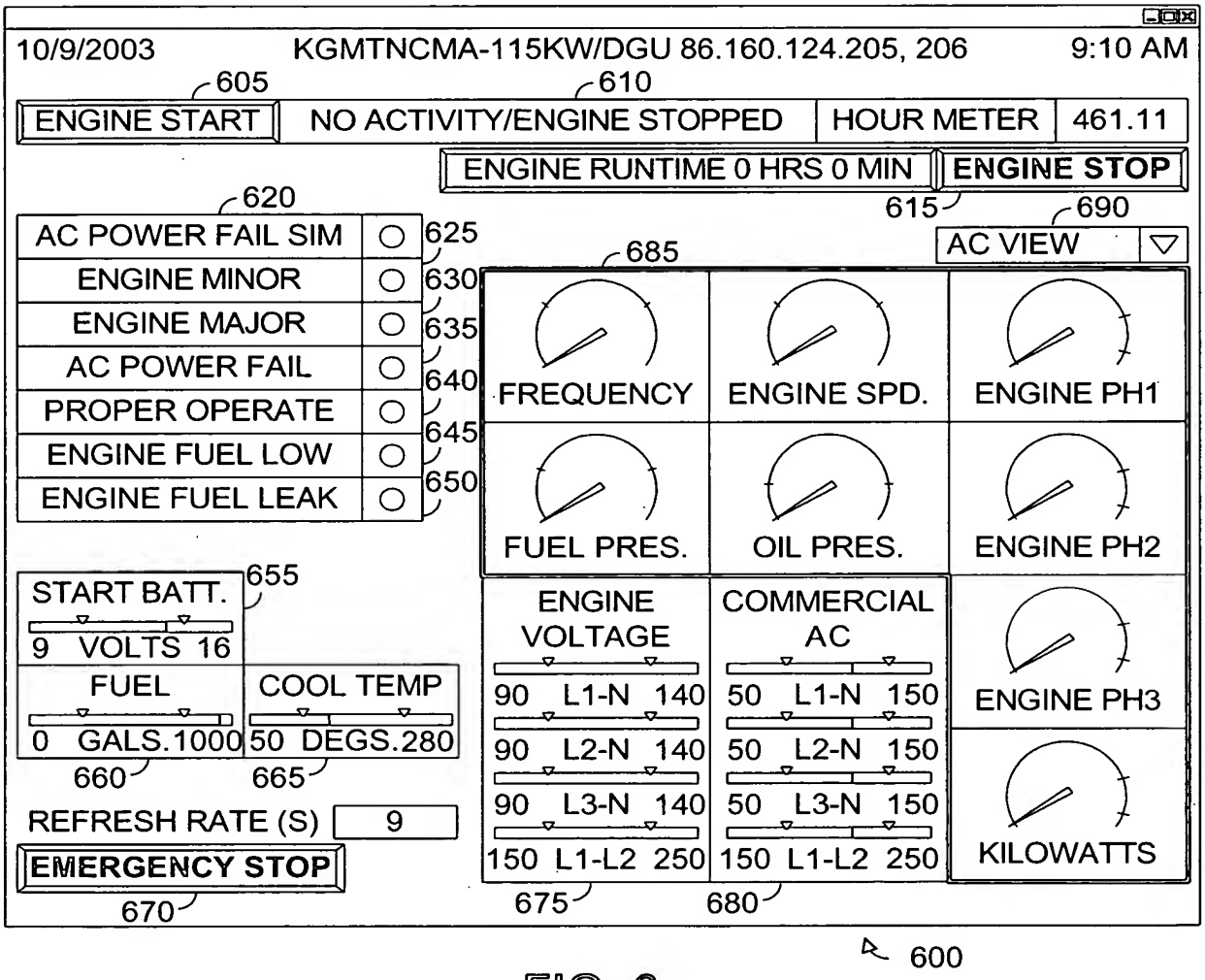
10/9/2003
KGMTNCMA-115KW/DGU 86.160.124.205, 206
9:10 AM
605
610
ENGINE START
NO ACTIVITY/ENGINE STOPPED
HOUR METER
461.11
ENGINE RUNTIME 0 HRS 0 MIN
ENGINE STOP
615
690
AC VIEW
620
AC POWER FAIL SIM
625
ENGINE MINOR
630
ENGINE MAJOR
635
AC POWER FAIL
640
PROPER OPERATE
645
ENGINE FUEL LOW
650
ENGINE FUEL LEAK
685
FREQUENCY
ENGINE SPD.
ENGINE PH1
FUEL PRES.
OIL PRES.
ENGINE PH2
655
START BATT.
9 VOLTS 16
FUEL
0 GALS.1000
660
COOL TEMP
50 DEGS.280
665
ENGINE VOLTAGE
90 L1-N 140
90 L2-N 140
90 L3-N 140
150 L1-L2 250
675
COMMERCIAL AC
50 L1-N 150
50 L2-N 150
50 L3-N 150
150 L1-L2 250
680
ENGINE PH3
KILOWATTS
REFRESH RATE (S)
9
EMERGENCY STOP
670
600

FIG. 6

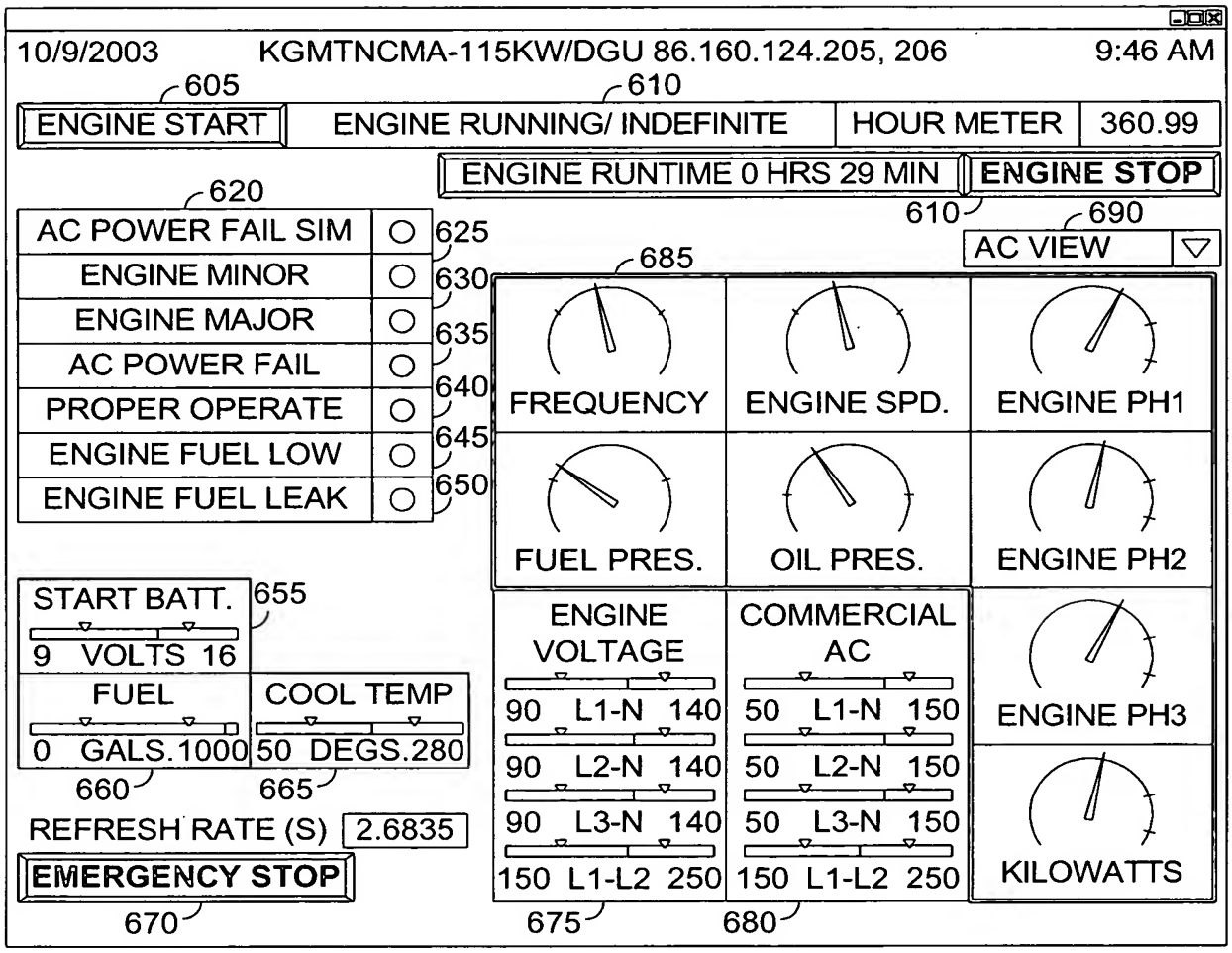
10/9/2003
KGMTNCMA-115KW/DGU 86.160.124.205, 206
9:46 AM
605
610
ENGINE START
ENGINE RUNNING/ INDEFINITE
HOUR METER
360.99
ENGINE RUNTIME 0 HRS 29 MIN
ENGINE STOP
620
610
690
AC VIEW
AC POWER FAIL SIM
625
ENGINE MINOR
630
ENGINE MAJOR
635
AC POWER FAIL
640
PROPER OPERATE
645
ENGINE FUEL LOW
650
ENGINE FUEL LEAK
685
FREQUENCY
ENGINE SPD.
ENGINE PH1
FUEL PRES.
OIL PRES.
ENGINE PH2
START BATT.
655
9 VOLTS 16
ENGINE VOLTAGE
90 L1-N 140
90 L2-N 140
90 L3-N 140
150 L1-L2 250
COMMERCIAL AC
50 L1-N 150
50 L2-N 150
50 L3-N 150
150 L1-L2 250
ENGINE PH3
KILOWATTS
FUEL
0 GALS.1000
COOL TEMP
50 DEGS.280
660
665
REFRESH RATE (S)
2.6835
EMERGENCY STOP
670
675
680

FIG. 7

700

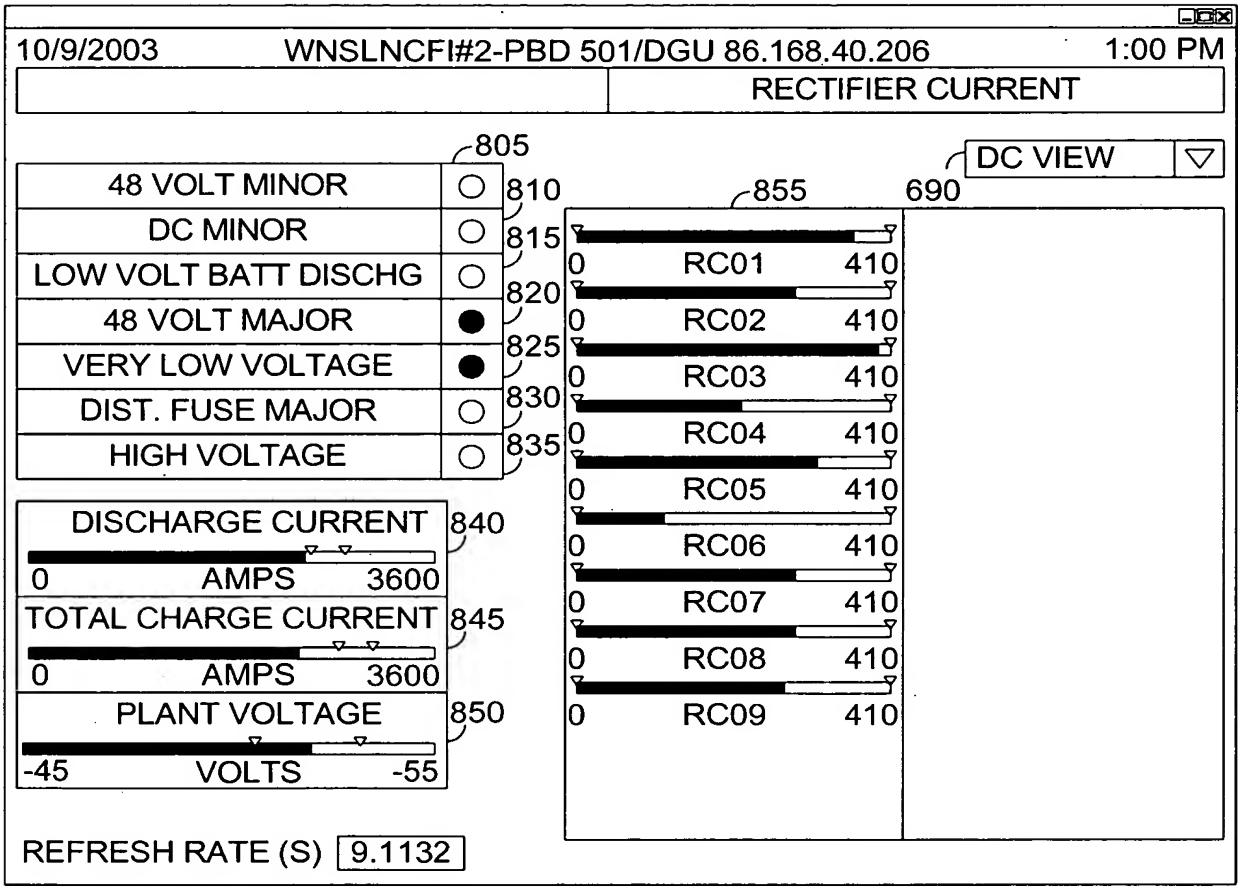
10/9/2003
WNSLNCFI#2-PBD 501/DGU 86.168.40.206
1:00 PM
RECTIFIER CURRENT
805
DC VIEW
690
855
48 VOLT MINOR
810
DC MINOR
815
LOW VOLT BATT DISCHG
820
48 VOLT MAJOR
825
VERY LOW VOLTAGE
830
DIST. FUSE MAJOR
835
HIGH VOLTAGE
DISCHARGE CURRENT
840
0 AMPS 3600
TOTAL CHARGE CURRENT
845
0 AMPS 3600
PLANT VOLTAGE
850
-45 VOLTS -55
0 RC01 410
0 RC02 410
0 RC03 410
0 RC04 410
0 RC05 410
0 RC06 410
0 RC07 410
0 RC08 410
0 RC09 410
REFRESH RATE (S) 9.1132

FIG. 8

800

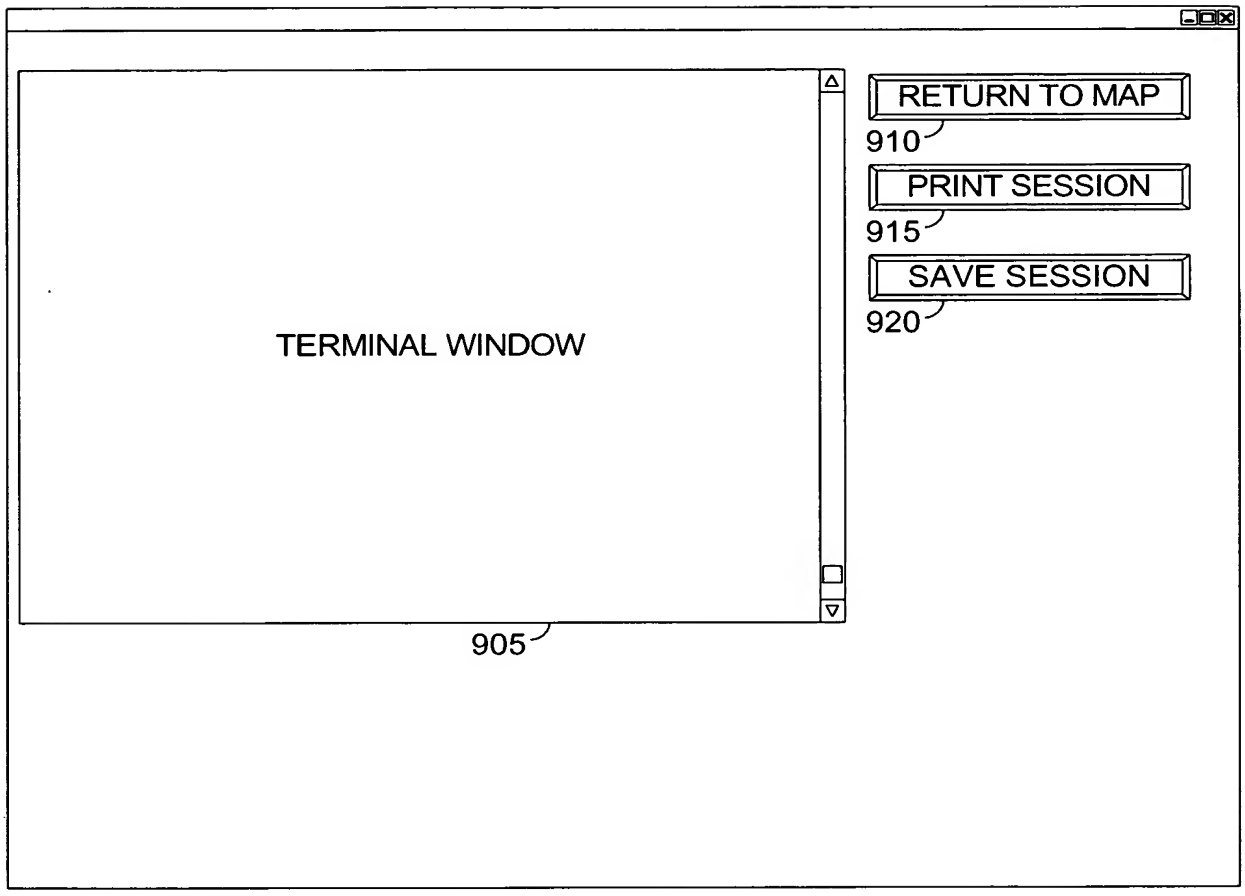
RETURN TO MAP
910
PRINT SESSION
915
SAVE SESSION
920
TERMINAL WINDOW
905
900

FIG. 9

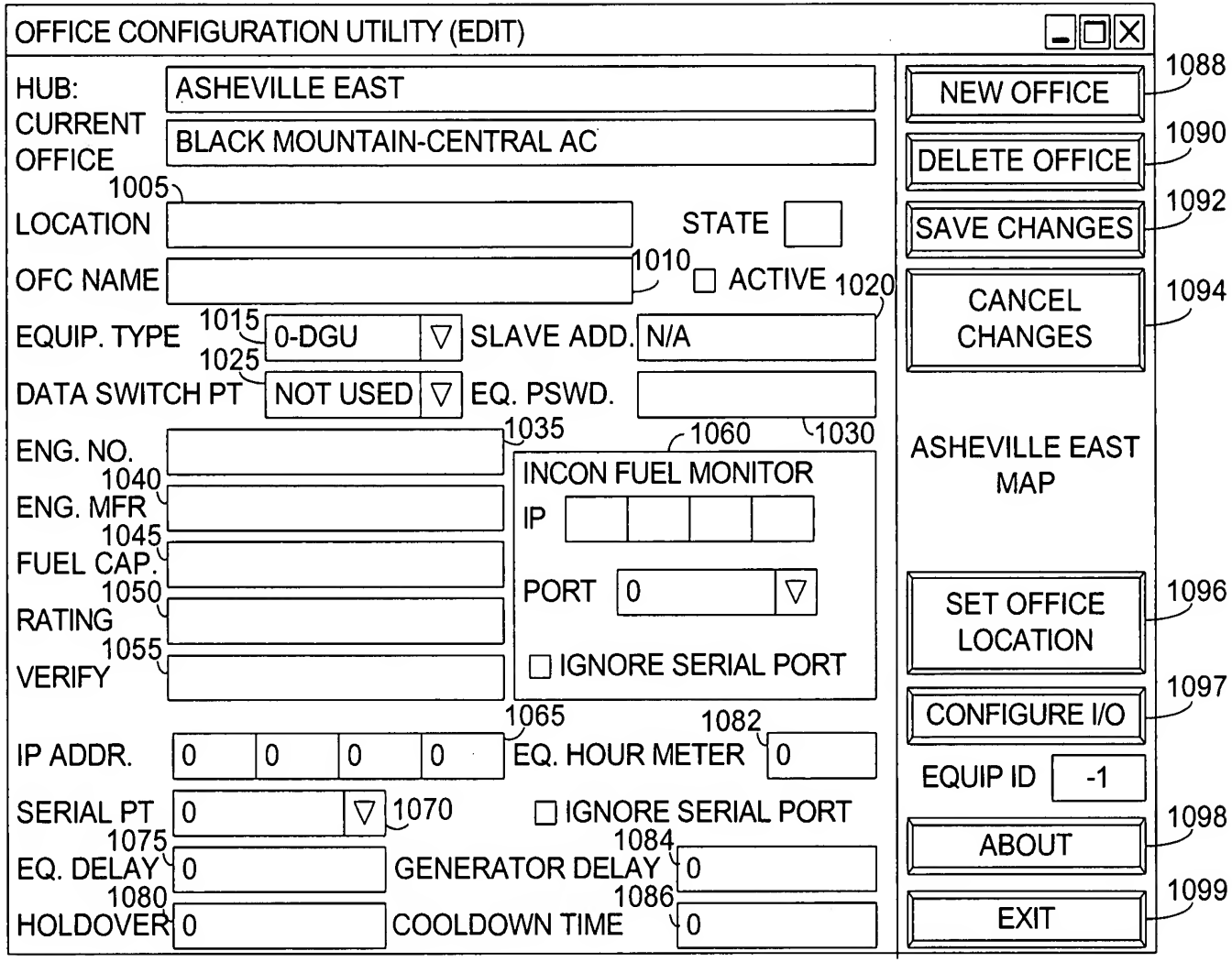
OFFICE CONFIGURATION UTILITY (EDIT)
HUB:
ASHEVILLE EAST
CURRENT OFFICE
BLACK MOUNTAIN-CENTRAL AC
1005
LOCATION
STATE
OFC NAME
1010
ACTIVE
1020
EQUIP. TYPE
1015
0-DGU
SLAVE ADD.
N/A
1025
DATA SWITCH PT
NOT USED
EQ. PSWD.
1035
1060
1030
ENG. NO.
INCON FUEL MONITOR
1040
ENG. MFR
IP
1045
FUEL CAP.
PORT
0
1050
RATING
IGNORE SERIAL PORT
1055
VERIFY
1065
1082
IP ADDR.
0
0
0
0
EQ. HOUR METER
0
SERIAL PT
0
1070
IGNORE SERIAL PORT
1075
1084
EQ. DELAY
0
GENERATOR DELAY
0
1080
1086
HOLDOVER
0
COOLDOWN TIME
0
1088
NEW OFFICE
1090
DELETE OFFICE
1092
SAVE CHANGES
1094
CANCEL CHANGES
ASHEVILLE EAST MAP
1096
SET OFFICE LOCATION
1097
CONFIGURE I/O
EQUIP ID
-1
1098
ABOUT
1099
EXIT

FIG. 10

1000

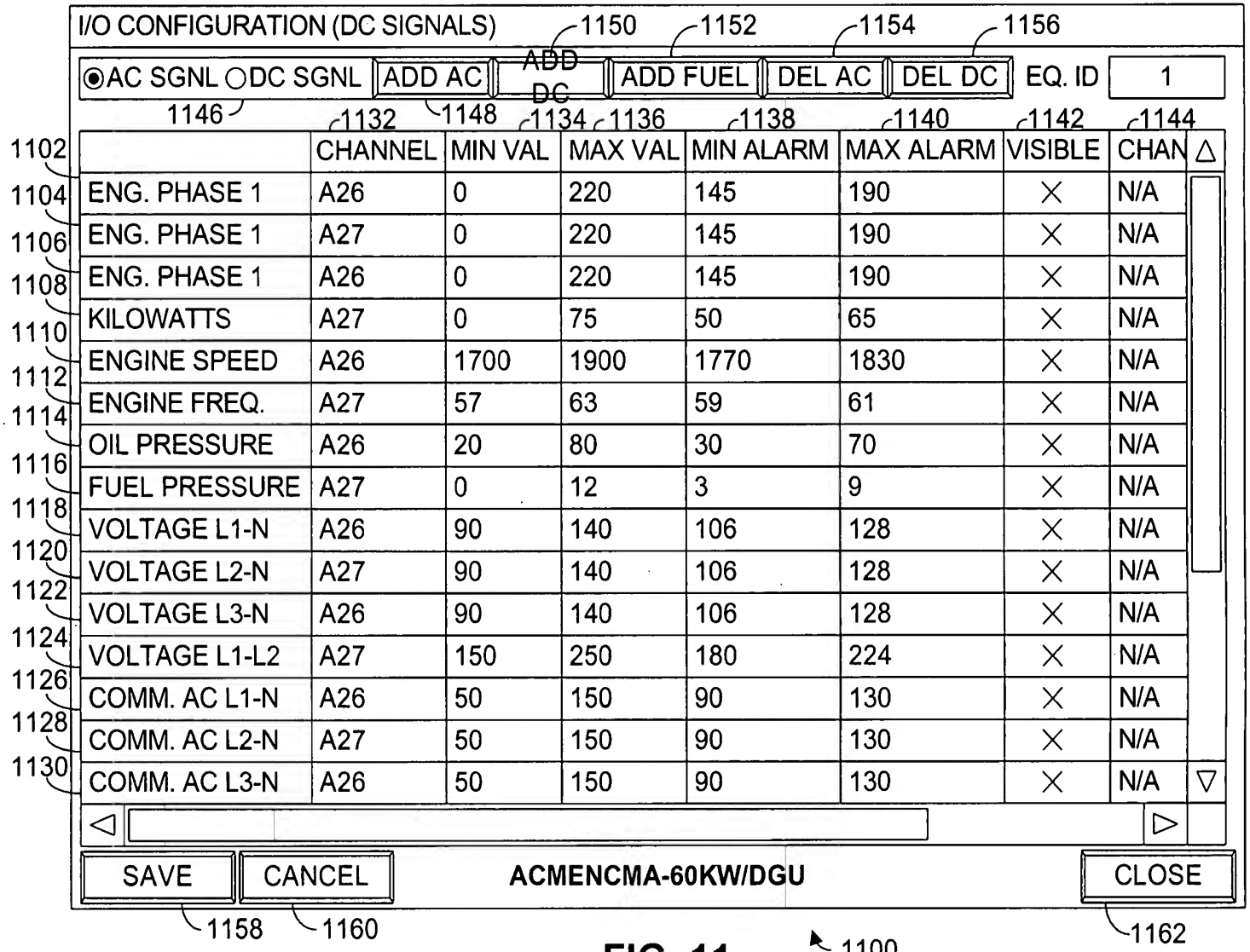
I/O CONFIGURATION (DC SIGNALS)
1150
1152
1154
1156
AC SGNL
DC SGNL
ADD AC
ADD DC
ADD FUEL
DEL AC
DEL DC
EQ. ID
1
1146
1132
1148
1134
1136
1138
1140
1142
1144
1102
CHANNEL
MIN VAL
MAX VAL
MIN ALARM
MAX ALARM
VISIBLE
CHAN
1104 ENG. PHASE 1 A26 0 220 145 190 X N/A
1106 ENG. PHASE 1 A27 0 220 145 190 X N/A
1108 ENG. PHASE 1 A26 0 220 145 190 X N/A
1110 KILOWATTS A27 0 75 50 65 X N/A
1112 ENGINE SPEED A26 1700 1900 1770 1830 X N/A
1114 ENGINE FREQ. A27 57 63 59 61 X N/A
1116 OIL PRESSURE A26 20 80 30 70 X N/A
1118 FUEL PRESSURE A27 0 12 3 9 X N/A
1120 VOLTAGE L1-N A26 90 140 106 128 X N/A
1122 VOLTAGE L2-N A27 90 140 106 128 X N/A
1124 VOLTAGE L3-N A26 90 140 106 128 X N/A
1126 VOLTAGE L1-L2 A27 150 250 180 224 X N/A
1128 COMM. AC L1-N A26 50 150 90 130 X N/A
1130 COMM. AC L2-N A27 50 150 90 130 X N/A
COMM. AC L3-N A26 50 150 90 130 X N/A
SAVE
CANCEL
ACMENCMA-60KW/DGU
CLOSE
1158
1160
1162
1100

FIG. 11

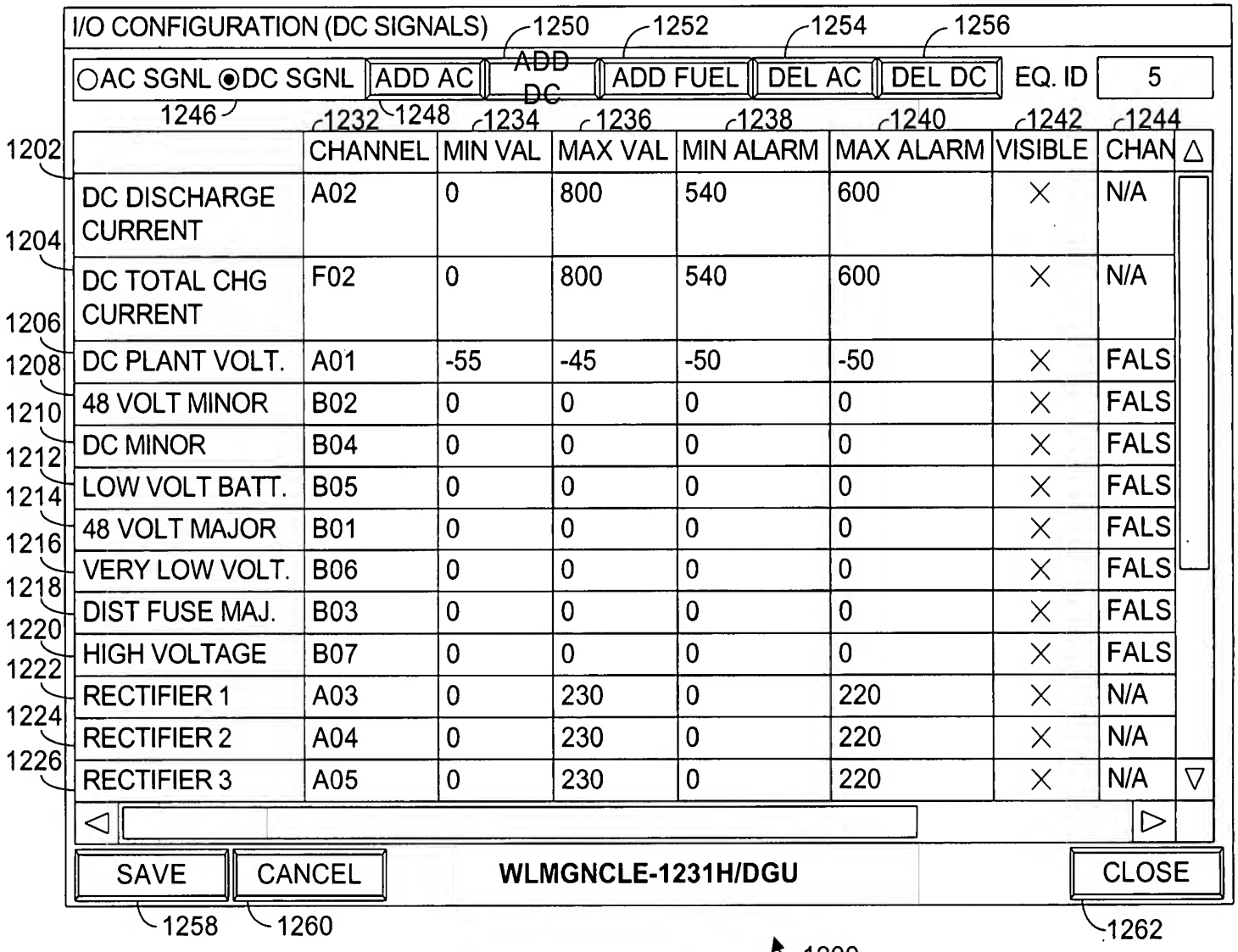
I/O CONFIGURATION (DC SIGNALS)
1250
1252
1254
1256
○AC SGNL ◉DC SGNL
ADD AC
ADD DC
ADD FUEL
DEL AC
DEL DC
EQ. ID
5
1246
1232
1248
1234
1236
1238
1240
1242
1244
1202
CHANNEL
MIN VAL
MAX VAL
MIN ALARM
MAX ALARM
VISIBLE
CHAN
DC DISCHARGE CURRENT
A02
0
800
540
600
N/A
1204
DC TOTAL CHG CURRENT
F02
0
800
540
600
N/A
1206
DC PLANT VOLT.
A01
-55
-45
-50
-50
FALS
1208
48 VOLT MINOR
B02
0
0
0
0
FALS
1210
DC MINOR
B04
0
0
0
0
FALS
1212
LOW VOLT BATT.
B05
0
0
0
0
FALS
1214
48 VOLT MAJOR
B01
0
0
0
0
FALS
1216
VERY LOW VOLT.
B06
0
0
0
0
FALS
1218
DIST FUSE MAJ.
B03
0
0
0
0
FALS
1220
HIGH VOLTAGE
B07
0
0
0
0
FALS
1222
RECTIFIER 1
A03
0
230
0
220
N/A
1224
RECTIFIER 2
A04
0
230
0
220
N/A
1226
RECTIFIER 3
A05
0
230
0
220
N/A
SAVE
CANCEL
WLMGNCLE-1231H/DGU
CLOSE
1258
1260
1262
1200

FIG. 12